Attorney's Docket No.: 14170-038006/25-31-0099



Applicant: Hugh R. Sharkey et al.

Serial No.: 10/712,006

Art Unit: Unknown
Examiner: Unknown

Filed: November 14, 2003

Title : METHOD FOR TREATING INTERVERTEBRAL DISCS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

I. Disclosure of the Attached Form PTO-1449

Applicants submit the attached form PTO-1449 (13 pages). This application claims priority to the following U.S. patent applications referenced by Serial No.: 10/388,609, 09/707,627, 09/236,816, 09/162,704, 09/153,552, 08/881,525, 08/881,692, 08/881,527, 08/881,693, 08/881,694, 09/876,833, 09/876,832, 09/876,831, 10/624,894, 09/753,786, 09/022,688, 10/242,777, 09/340,065, 09/022,612, 09/776,231, 09/776,186, 09/272,806, 09/884,859, 09/792,628, 09/664,473, 08/696,051. All of the references were submitted to and/or cited by the Office in one or more of the priority applications and, therefore, are not provided in this application.

These references are provided for the sake of completeness and may be no more pertinent than or may be cumulative to references already supplied.

II. Disclosure of Patent Litigation of Related Patents

This application is related (by a claim of priority) to U.S. Pat. Nos. 5,980,504 ("the '504 patent") and 6,261,311 ("the '311 patent) that are being asserted by their owner Smith & Nephew against a company Arthrocare because of Arthrocare's SpineWand product and its use in a procedure called Nucleoplasty. Smith & Nephew filed a Complaint and Arthrocare answered the Complaint on August 7, 2003, and asserted a counterclaim that the '504 and '311 patents were unenforceable due to inequitable conduct (see Reference MI, paragraphs 37-39). A copy of Arthrocare's Answer and Counterclaim is submitted as Reference MI.

A. Characterizations of U.S. Pat. No. 5,433,739

Arthrocare alleges that one of the inventors and/or others involved with the prosecution of the application leading to the '504 and '311 patents misrepresented material information about

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U.S. Pat. No. 5,433,739 ("the '739 patent") in comments made at col. 3, lines 56-58 of the '311 patent and at col. 3, lines 23-25 of the '504 patent. The characterizations of the '739 patent identified by Arthrocare in the '311 patent are also in the present application. To address the allegations related to the '739 patent, Applicants offer the following remarks.

Statements in the '311 Patent Identified by Arthrocare

Arthrocare identifies the statement that "neither embodiment of the devices of the '739 patent . . . provide[s] for focal delivery of therapy to a selected local region within the disc or precise temperature control at the annulus" in the '311 patent at col. 3, lines 56-58 as a misrepresentation of material information. Smith & Nephew, owner of the present application, disputes the allegation.

Focal Delivery of Therapy to a Selected Local Region

The statement in the '311 patent is accurate. Neither embodiment of the devices of the '739 patent "provide[s] for focal delivery of therapy to a selected local region within the disc." The '739 patent is directed to "heating the entire disc to a temperature significantly above body temperature. The heated disc will, in turn, heat the nerves which innervate its surface, and they will be destroyed or altered if the heat of the disc is elevated to an appropriately high temperature." Thus, rather than focal delivery of therapy to a selected local region within the disc, the '739 patent describes "global heating" of the disc.

In addition to the '739 patent discussing placing an electrode approximately at the center of the disc to achieve a global spread of heat throughout the disc,² the '739 patent also describes depositing primary heat at different regions within the disc,³ and denervating neural structures on a "semi-global" basis. ⁴ This global or semi-global heating or denervation is not "focal delivery of therapy to a selected local region within the disc."

b) Precise Temperature Control

The statement made in the '311 patent is accurate. Neither embodiment of the devices of the '739 patent "provide[s]... precise temperature control at the annulus." The '739 patent

¹ The '739 patent at col. 2, lines 52-60.

² The '739 patent at col. 5, lines 58-65.

³ The '739 patent at col. 9, lines 19-20 and 46-49, and col. 14, lines 61-68.

⁴ The '739 patent at col. 5, lines 67-68.

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describes monitoring temperature⁵ and states, as an objective, that an operator using multiple temperature monitors at remote "points in space relative to the primary RF lesion electrode"can control the exact temperature distribution⁶. However, the operator monitoring of the '739 patent does not provide precise temperature control at the annulus or anywhere else, which is exemplified by the description in the '311 patent of "the use of [temperature] sensors 48 and feedback control system 52, [to maintain] a tissue . . . at a desired temperature for a selected period of time without aberrant high temperature fluctuations". While the '739 patent describes that an "rf generator may also include . . . control circuitry to vary and monitor the radio frequency power delivered to the electrode," the '739 patent does not describe that the control circuitry is used to control temperature.

2. Statements in the '504 Patent Identified by Arthrocare

Arthrocare identifies the statement that "the embodiments of the '739 patent do not . . . provide for delivery of material to treat the annulus, nor do the embodiments permit temperature monitoring at the posterior annulus" in the '504 patent at col. 3, lines 56-57 as a misrepresentation of material information. Smith & Nephew disputes the allegation as detailed below.

a) Delivery of Material to Treat the Annulus

The statement in the '504 patent is accurate. That is, the embodiments of the '739 patent do not even "provide for delivery of material to treat the annulus." First, the '739 patent does not identify the anatomical structure of the annulus of the disc. Second, though the '739 patent describes devices that can deliver anesthetic, the anesthetic is used to assist in the process of identifying the proper disc to treat, not to treat the disc, much less to treat the annulus of the disc. 9

b) Temperature Monitoring at the Posterior Annulus

The statement is accurate that the embodiments of the devices of the '739 patent do not "permit temperature monitoring at the posterior annulus." The anatomy of the spine prohibits

⁵ The '739 patent at col. 5, lines 65-67.

⁶ The '739 patent at col. 4, lines 10-20.

⁷ The '311 patent at col. 19, lines 10-13,

⁸ The '739 patent at col. 5, lines 23-26.

⁹ The '739 patent at col. 14, lines 9-16.

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access to the posterior annulus from a directly posterior position. The '739 patent states that "another way of measuring the temperature throughout the disc and at remote positions would be to have a side outlet probe." As described, the side outlet probe emanates along a curved trajectory. 12 However, that curved trajectory (shown in dashed lines in Fig. 2 of the '739 patent) does not reach the posterior annulus, and thus the devices of the '739 patent do not permit temperature monitoring at the posterior annulus.

III. Prior Art Not Cited in Related Applications

Arthrocare also alleges that U.S. Pat. No. 5,486,161 was withheld from the Patent Office during prosecution of the '504 and '311 patents. This reference has been supplied to the Patent Office and the examiner is invited to consider the reference in the context of the examination of the present claims.

This statement is being filed before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

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11th Floor

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¹⁰ The '504 patent at col. 2, lines 50-53.

¹¹ The '739 patent at col. 9, lines 37-39.

¹² The '739 patent at col. 9, lines 37-45 and col. 12, lines 56-65.

O MA Substitute For (Modiffed)

titute/Form PTO-1449

(37 CFR §1.98(b))

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 14170-038006

Application No. 10/712,006

Information Disclosure Statement by Applicant

Applicant Hugh R. Sharkey et al.

Filing Date

Group Art Unit

(Use several sheets if necessary)

November 14, 2003

To be assigned

			U.S. Pate	nt Documents			
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class_	Subclass	Filing Date If Appropriate
	AA	164,184	06/08/75	Kidder			
	AB	300,155	06/10/84	Starr			
	AC	371,664	10/18/87	Brannan et al.			
	AD	452,220	05/12/91	Gunning			
	AE	1,314,855	09/02/19	Carpenter			
	AF	1,366,756	01/25/21	Wappler			
	AG	1,731,627	10/15/29	Johnson et al			
	AH	1,735,271	11/12/29	Groff			
	AI	1,814,791	07/14/31	Ende			
	AJ	1,908,583	05/09/33	Wappler			
	AK	1,916,722	07/04/33	Ende			
	AL	1,932,258	10/24/33	Wappler		-	
	AM	1,943,543	01/16/34	McFadden			
	AN	1,983,669	12/11/34	Kimble			
	AO	2,002,594	05/28/35	Wappler et al.			
	AP	2,004,559	06/11/35	Wappler et al.			
	AQ	2,050,904	08/11/36	Trice			
	AR	2,056,377	10/06/36	Wappler			
· ·	AS	2,224,464	12/10/40	Wolf			
	AT	2,275,167	03/03/42	Bierman			
	AU	2,888,928	06/02/59	Seiger			
	AV	3,152,590	10/13/64	Rodriguez Zurdo et al.			
	AW	3,163,165	12/29/64	Isikawa			
	AX	3,460,539	08/12/69	Anhalt			
	AY	3,595,239	07/27/71	Petersen			
	AZ	3,655,032	04/11/72	Willis			

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Information Disclosure Statement by Applicant (Use several sheets if necessary)

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Applicant

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To be assigned

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10/30/73 Shaw BA 3,768,482 Muench BB3,769,984 11/06/73 04/02/74 Morrison BC 3,801,766 06/11/74 O'Malley et al. BD 3,815,604 BE 3,828,780 08/13/74 Morrison BF 3,870,047 03/11/75 Gonser 3,901,242 08/26/75 Storz BG BH 3,902,494 09/02/75 Haberlen et al. Hiltebrandt BI3,920,021 11/18/75 11/18/75 **Pastor** BJ 3,920,022 02/17/76 Rioux et al. BK 3,938,527 07/20/76 Morrison BL3,970,088 Morrison 10/26/76 BM 3,987,795 03/15/77 Komiya BN 4,011,872 04/12/77 Roiux et al. BO 4,016,881 07/12/77 Corsens et al. 4,034,762 BP Morrison 08/09/77 BO 4,040,426 Storz 4,060,086 11/29/77 BR Hiltebrandt et al. BS 4,060,087 11/29/77 4,060,088 11/29/77 Morrison BT BU 4,116,198 09/26/78 Roos BV4,140,130 02/20/79 Storm III 10/09/79 BW4,170,234 Graham 01/01/80 BX4,181,131 Ogiu 01/22/80 Meinke et al. BY 4,184,492 12/23/80 Khalil BZ4,240,441

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(Use several sheets if necessary)

Hugh R. Sharkey et al.

Applicant

Group Art Unit

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CA	4,301,802	11/24/81	Poler		
СВ	4,411,266	10/25/83	Cosman		
CC	4,418,692	12/06/83	Guay		
CD	4,427,006	01/24/84	Nottke		
CE	4,448,198	05/15/84	Turner		
CF	4,478,822	10/23/84	Haslam et al.		
CG	4,524,770	06/25/85	Orandi		
СН	4,545,374	10/08/85	Jacobson		
CI	4,559,951	12/24/85	Dahl et al.		
CJ	4,562,838	01/07/86	Walker		
CK	4,565,200	01/21/86	Cosman		
CL	4,643,186	02/17/87	Rosen et al.		
CM	4,646,737	03/03/87	Hussein et al.		
CN	4,672,962	06/16/87	Hershenson		
СО	4,682,596	07/28/87	Bales et al.		
СР	4,688,569	08/25/87	Rabinowitz		
CQ	4,699,157	10/13/87	Shonk		
CR	4,712,559	12/15/87	Turner		
CS	4,719,914	01/19/88	Johnson		
CT	4,735,201	04/05/88	O'Reilly		
CU	4,753,223	06/28/88	Bremer		
CV	4,754,752	07/05/88	Ginsburg et al.	_	
CW	4,765,331	08/23/88	Petruzzi et al.		
CX	4,769,005	09/06/88	Ginsburg et al.		
CY	4,784,161	11/15/88	Skalsky et al.		
CZ	4,800,899	01/31/89	Elliott		

Examiner Signature	Date Considered

Attorney's Docket No. Application No. Substitute Form PTO-1449 U.S. Department of Commerce (Modified) Patent and Trademark Office 10/712,006 14170-038006 Applicant **Information Disclosure Statement** Hugh R. Sharkey et al. **by Applicant** (Use several sheets if necessary) Filing Date Group Art Unit November 14, 2003 To be assigned (37 CFR §1.98(b))

DA	4,805,616	02/21/89	Pao			
DB	4,811,743	03/14/89	Stevens			
DC		04/25/89	D'Amelio et al.			
DD	4,846,175	07/11/89	Frimberger			
DE	4,860,744	08/29/89	Johnson et al.	1 1		
DF	4,917,092	04/17/90	Todd et al.			
DG	4,919,129	04/24/90	Weber et al.			
DH	4,924,882	05/15/90	Donovan			
DI	4,927,420	05/22/90	Newkirk et al.			
DJ	4,936,301	06/26/90	Rexroth et al.			
DK	4,943,290	07/24/90	Rexroth et al.			
DL	4,950,267	08/21/90	Ishihara et al.			
DM	4,955,378	09/11/90	Grasso			
DN	4,976,711	12/11/90	Parins et al.			
DO	5,007,908	04/16/91	Rydell			
DP	5,013,312	05/07/91	Parins et al.		<u> </u>	
DQ	5,084,044	01/28/92	Quint			
DR	5,084,043	01/28/92	Hertzmann et al.			
DS	RE 33,925	05/12/92	Bales et al.			
DT	5,122,138	06/16/92	Manwaring			
DU	5,125,928	06/30/92	Parins et al.			
DV	5,158,561	10/27/92	Rydell et al.			
DW	5,163,938	11/17/92	Kambara et al.			
DX	5,171,255	12/15/92	Rydell			
DY	5,205,816	04/27/93	Dodson et al.			
DZ	5,207,675	05/04/93	Canady			

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EXAMINER: Initials citation considered. Draw line through citation if no	t in conformance and not considered. Include copy of this form with

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. Application No. Substitute Form PTO-1449 (Modified) 14170-038006 10/712,006 Applicant **Information Disclosure Statement** Hugh R. Sharkey et al. **by Applicant** (Use several sheets if necessary) Filing Date Group Art Unit November 14, 2003 To be assigned (37 CFR §1.98(b))

 r		Γ	
 EA	5,211,625	05/18/93	Sakurai et al.
 EB	5,241,972	09/07/93	Bonati
EC	5,254,121	10/19/93	Manevitz et al.
ED	5,273,524	12/28/93	Fox et al.
EE	5,277,696	01/11/94	Hagen
EF	5,281,213	01/25/94	Milder et al.
EG	5,281,218	01/25/94	Imran
EH	5,282,845	02/01/94	Bush et al.
EI	5,300,069	04/05/94	Hunsberger et al.
EJ	5,301,687	04/12/94	Wong et al.
EK	5,318,525	06/07/94	West et al.
EL	5,336,222	08/09/94	Durgin et al.
EM	5,364,839	11/15/94	Gerhart et al.
EN	5,383,876	01/24/95	Nardella
EO	5,383,923	01/24/95	Webster
EP	5,385,148	01/31/95	Lesh et al.
 EQ	5,396,900	03/14/95	Slater et al.
ER	5,403,311	04/04/95	Abele et al.
ES	5,409,008	04/25/95	Svenson et al.
 ET	5,421,819	06/06/95	Edwards et al.
 EU	5,423,808	06/13/95	Edwards et al.
EV	5,423,811	06/13/95	Imran et al.
EW	5,423,815	06/13/95	Fugo
EX	5,423,882	06/13/95	Jackman et al.
EY	5,431,649	07/11/95	Mulier et al.
EZ	5,433,708	07/18/95	Nichols et al.

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FA	5,437,664	08/01/95	Cohen et al.
FB	5,441,499	08/15/95	Fritzsch
FC	5,454,809	10/03/95	Janssen
FD	5,456,682	10/10/95	Edwards et al.
FE	5,458,597	10/17/95	Edwards et al.
 FF	5,470,309	11/28/95	Edwards et al.
FG	5,472,426	12/05/95	Bonati et al.
 FH	5,472,441	12/05/95	Edwards et al.
FI	5,487,385	01/30/96	Avitall
 FJ	5,520,645	05/28/96	Imran et al.
FK	5,522,815	06/04/96	Durgin
 FL	5,540,681	07/30/96	Strul et al.
FM	5,542,945	08/06/96	Fritzsch
FN	5,545,161	08/13/96	Imran
 FO	5,545,193	08/13/96	Fleischman et al.
FP	5,569,244	10/29/96	Hahnen
FQ	5,569,245	10/29/96	Guglielmi et al.
FR	5,571,147	11/05/96	Sluijter et al.
 FS	5,573,533	11/12/96	Strul
FT	5,582,609	12/10/96	Swanson et al.
FU	5,584,830	12/17/96	Ladd et al.
FV	5,601,572	02/11/97	Middleman et al.
FW	5,603,709	02/18/97	Johnson
FX	5,607,422	03/04/97	Smeets et al.
 FY	5,637,090	06/10/97	McGee et al.
FZ	5,643,255	07/01/97	Organ
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U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. Application No. Substitute Form PTO-1449 (Modified) 14170-038006 10/712,006 Applicant **Information Disclosure Statement** Hugh R. Sharkey et al. by Applicant (Use several sheets if necessary) Filing Date Group Art Unit November 14, 2003 To be assigned (37 CFR §1.98(b))

GA	5,673,707	10/07/97	Chandrasekaran
GB	5,676,662	10/14/97	Fleischhacker et al.
GC	5,680,860	10/28/87	Imran
GD	5,683,384	11/04/97	Gough et al.
GE	5,687,723	11/18/97	Avitall
GF	5,688,267	11/18/97	Panescu et al.
GG	5,693,050	12/02/97	Speiser
 GH	5,694,945	12/09/97	Ben-Haim
GI	5,697,281	12/16/97	Eggers et al.
GJ	5,697,536	12/16/97	Eggers et al.
 GK	5,697,882	12/16/97	Eggers et al.
GL	5,735,792	04/07/98	Vander Hoek et al.
GM	5,697,927	12/16/97	Imran et al.
GN	5,700,262	12/23/97	Acosta et al.
GO	5,738,683	04/14/98	Osypka
GP	5,741,245	04/21/98	Cozean et al.
GQ	5,743,903	04/28/98	Stern et al.
GR	5,762,626	06/09/98	Lundquist et al.
GS	5,766,153	06/16/98	Eggers et al.
 GT	5,779,646	07/14/98	Koblish et al.
GU	5,779,699	07/14/98	Lipson
GV	5,782,795	07/21/98	Bays
 GW	5,785,705	07/28/98	Baker
GX	5,797,903	08/25/98	Swanson et al.
GY	5,807,306	09/15/98	Shapland et al.
GZ	5,810,802	09/22/98	Panescu et al.

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I	·ΙΑ	5,836,875	11/17/98	Webster		
I	HB	5,836,892	11/17/98	Lorenzo		
I	НС	5,836,947	11/17/98	Fleischman et al.		
I	HD	5,853,409	12/29/98	Swanson et al.		
I	HE	5,857,991	01/12/99	Grothoff et al.		
	HF	5,860,951	01/19/99	Eggers et al.	-	
I	НG	5,860,974	01/19/99	Abele		
F	Н	5,861,002	01/19/99	Desai		
	HI	5,871,469	02/16/99	Eggers et al.		
1	HJ	5,871,501	02/16/99	Leschinsky et al.		
I	ΗK	5,873,855	02/23/99	Eggers et al.		
I	HL	5,882,346	03/16/99	Pomeranz et al.		
F	łM	5,885,217	03/23/99	Gisselberg et al.		
I	·Ν	5,885,278	03/23/99	Fleischman		
I	Ю	5,888,198	03/30/99	Eggers et al.		
1	HP	5,891,095	04/06/99	Eggers et al.		
I	HQ.	5,897,553	04/27/99	Mulier et al.		
I	HR	5,902,272	05/11/99	Eggers et al.		
1	HS	5,910,129	06/08/99	Koblish et al.		
I	TF	5,916,158	06/29/99	Webster		
F	HU	5,916,166	06/29/99	Reiss		
I	HV	5,921,924	07/13/99	Avitall		
I-	łW	5,935,123	08/10/99	Edwards et al.		
I	НX	5,980,471	11/09/99	Jafari		
I	ΗY	5,980,504	11/09/99	Sharkey et al.		
I	HZ	5,991,650	11/23/99	Swanson et al.		

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Substitute Form PTO-1449 (Modified)			Application No. 10/712,006	
1	closure Statement pplicant	Applicant Hugh R. Sharkey et al.		
(Use several s	heets if necessary)	Filing Date November 14, 2003	Group Art Unit To be assigned	

IA	5,993,424	11/30/99	Lorenzo et al.	
 IB	6,004,319	12/21/99	Goble et al.	
IC	6,007,570	12/28/99	Sharkey et al.	-
ID	6,010,493	01/04/00	Snoke	
IE	6,014,579	01/11/00	Pomeranz et al.	
IF	6,017,361	01/25/00	Mikus et al.	
IG	6,023,638	02/08/00	Swanson	
IH	6,033,397	03/07/00	Laufer et al.	
II	6,036,688	03/14/00	Edwards	
IJ	6,048,329	04/11/00	Thompson et al.	
IK	6,048,340	4/11/00	Miyagi	
IL	6,053,172	04/25/00	Hovda et al.	
IM	6,056,744	05/02/00	Edwards	
IN	6,073,051	06/06/00	Sharkey et al.	
IO	6,079,417	06/27/00	Fugo	
IP	6,093,185	07/25/00	Ellis et al.	
IQ	6,095,149	08/01/00	Sharkey et al.	
IR	6,099,514	08/08/00	Sharkey et al.	
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IW	6,122,549	09/19/00	Sharkey et al.	
IX	6,126,682	10/03/00	Sharkey et al.	
IY	6,135,999	10/24/00	Fanton et al.	
IZ	6,165,139	12/26/00	Damadian	·

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if no	t in conformance and not considered. Include copy of this form with
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Application No. U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. Substitute Form PTO-1449 (Modified) 14170-038006 10/712,006 Applicant **Information Disclosure Statement** Hugh R. Sharkey et al. by Applicant (Use several sheets if necessary) Filing Date Group Art Unit November 14, 2003 To be assigned (37 CFR §1.98(b))

 			
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JВ	6,171,306	01/09/01	Swanson et al.
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JН	6,245,061	06/12/01	Panescu et al.
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 ЛМ	6,273,886	08/14/01	Edwards et al.
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JW	6,308,091	10/23/01	Avitall
JX	6,332,880	12/25/01	Yang et al.
JY	2002/0019626	02/14/02	Sharkey et al.
JZ	2002/0022830	02/21/02	Sharkey et al.

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Substitute Form PTO-1449 Application No. U.S. Department of Commerce Attorney's Docket No. (Modified) Patent and Trademark Office 14170-038006 10/712,006 Applicant **Information Disclosure Statement** Hugh R. Sharkey et al. by Applicant (Use several sheets if necessary) Filing Date Group Art Unit November 14, 2003 To be assigned (37 CFR §1.98(b))

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Examiner	Desig.	Document	Publication	Country or		Subc	Transla	ation
Initial	ID	Number	Date	Patent Office	Class	lass	Yes	No
	KS	2,188,668	11/16/95	CA				
	KT							
	KU	3918316	03/22/90	DE				
	KV	38 38 840	05/23/90	DE			Abstract Yes	
	KW	41 08 269	06/17/92	DE			Abstract Yes	
	KX	44 25 015	01/25/96	DE			Abstract Yes	
	KY	196 30 601	02/06/97	DE			Abstract Yes	

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Substitute Form P (Modified)	TO-1449	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14170-038006	Application No. 10/712,006
Infor	mation Discl by Apr	osure Statement blicant	Applicant Hugh R. Sharkey et al.	
(37 CER &1 98/h))	•	ets if necessary)	Filing Date November 14, 2003	Group Art Unit To be assigned

	Foreig	n Patent Doc		ublished Foreign P	atent A			
Examiner	Desig.	Document	Publication Date	Country or Patent Office	Class	Subc lass	Transla Yes	tion No
Initial	ID	Number			Class	1855	168	INO
	LA	0 013 605	07/23/80	EPO	-			
	LB	0 257 116	03/02/88	EPO				
	LC	0 274 705	07/20/88	ЕРО			Abstract Yes	
	LD	0 392 837	10/17/90	EPO				
	LE	0 407 057	01/09/91	EPO				
	LF	0 439 263	07/31/91	EPO				
	LG	0 521 595	01/07/93	EPO			<u> </u>	
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	LI	0 682 910	11/22/95	ЕРО			Abstract Yes	
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	LL	1,583,397	01/28/81	GB				
	LM	2,160,102	12/18/85	GB				
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	LQ	WO 92/05828	04/16/92	WIPO				
	LR	WO 93/15664	08/19/93	WIPO				
	LS	WO 94/10921	05/26/94	WIPO				
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	LU	WO 95/10321	04/20/95	WIPO				
	LV	WO 95/10981	04/27/95	WIPO				
	LW	WO 96/00036	01/04/96	WIPO				
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	LY	WO 96/29946	10/03/96	WIPO				
	LZ	WO 96/34571	11/07/96	WIPO				

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Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14170-038006	Application No. 10/712,006
	closure Statement	Applicant Hugh R. Sharkey et al.	
(Use several sheets if necessary) (37 CFR §1.98(b))		Filing Date November 14, 2003	Group Art Unit

MA	WO 96/37146	11/28/96	WIPO	
MB	WO 96/39085	12/12/96	WIPO	
MC	WO 96/39966	12/19/96	WIPO	
MD	WO 98/11944	03/26/98	WIPO	
ME	WO 98/34558	08/13/98	WIPO	
MF	WO 99/18878	04/22/99	WIPO	
MG	WO 99/47058	09/23/99	WIPO	
МН	WO 99/51149	10/14/99	WIPO	

	Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document	
	MI	Answer and Counterclaims of Defendant Arthrocare Corporation, filed 8/7/03, in re Smith & Nephew, Inc. v. Arthrocare Corporation (No. 03-2214 MaA, USDC, Western District of Tennessee, Western Division.	
	MJ	Fine, B.S., and Yanoff, Y., Ocular Histology, 2 nd Ed., pp. 130-159, Harper & Row, Hagerstown, Maryland, 1979.	
	MK	Cosman, E.R., and Cosman, B.J., "Methods of Making Nervous System Lesions," Neurosurgery, R.H. Wilkins and S.S. Rengachary, eds., Chapter 337, pp. 2490-2499	
	ML	Elsasser et al., "An instrument for transurethral resection without leakage of current," Medizinal-Markt/Acta Medicotechnica, Vol. 24 (4), 1976 129-134.	
	MM	"Lase®The Next Step in Conservative Therapy for Patients with Contained Herniated Discs," Clarus Medical, reprinted from http://www.clarus-medical.com/lase.htm , 5 pages	
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	MP	Zinn, K.M. and Mockel-Pohl, S., "The Lens and Zonules," Ocular Fine Structure for the Clinician, Vol. 13, No. 3, 1973, pp. 143-155	

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